inch, N., clear; Hiroshima, 30.33, a rise of 0.11 inch, NNE., clear; Nagasaki, 30.37, a rise of 0.11 inch, NNE., clear. During the day the depression disappeared eastward over the ocean. No. XXVII.—This depression appeared in southeastern China on the 28th. S. S. Monocacy, U. S. N., at Shanghai, barometer 29.80, a fall of 0.22 inch, S., force 1, clear; S. S. Palos, U.S.N., at Shanghai, barometer 29.83, a fall of 0.22 inch, SSE., force 2, cloudy. 29th, position of central disturbance uncertain, probably south of the Island of Kinsin. Hiroshima, 29.98, a fall of 0.03 inch, NNE., fair; Nagasaki, 30.01, N., threatening; Tokei, 29.65, a fall of 0.35 inch, NW., 13 miles, 1.22 inches rain-fallin past 24 hours, raining; Wakayama, 29.86, a fall of 0.19 inch, NW., cloudy. 30th, Hiroshima, 29.88, a fall of 0.10 inch, W., fair; Nagasaki, 29.87, a fall of 0.14 inch, SE., clear; Tokei, 30.05, a rise of 0.40 inch, ENE., cloudy; Wakayama, 29.94, a rise of 0.08 inch, N. cloudy. 31st, Hiroshima, 29.88, no change, N., fair; Nagasaki, 29.09, a rise of 0.12 inch, WNW., clear; Wakayama, 29.73, a fall of 0.21 inch, WNW., 13 miles, clear; Tokei, 29.43, a fall of 0.62 inch, 17.78 m.m. rain-fall in past 24 hours, cloudy. April 1st, Hiroshima, 30.03, a rise of 0.15 inch, NNE., clear; Wakayama, 30.01, a rise of 0.28 inch, N., cloudy; Tokei, 29.87 a rise of 0.44 inch, NNW., clear. During the previous day the depression disappeared eastward over the ocean.

Ocean Ice.-January 30th, 1882. In 47° 30' N., 48° 35' W. S. S. Glamorgan passed large iceberg about 40 feet high. February 1st, the same steamer passed in 46° 43′ N., 52° 24′ W., a great quantity of field ice extending 40 miles in length. 9th, in 47° 30′ N., 47° W., S. S. Averill, reported a large quantity of field ice and several large icebergs. 11th, in 46° 30' N., 45° 30' W., S. S. Australia, passed through large quantities of field ice and saw several icebergs; in 46° 34′ N., 48° 37' W., S. S. Pollax reported large quantities of field ice; in 47° 19′ N., 47° 18′ W., S. S. Vandalia, reported large quantities of field ice; in 46° N., 46° W., S. S. Brooklyn City saw large iceberg and four hours later large packs of ice. 15th, in 47° 05' N., 44° 30' W., S. S. P. Caland passed large iceberg and considerable quantities of floating ice up to 45° 40' N., 46° 43' W. 16th, in 47° 50′ N., 46° 30′ W., S. S. Thingvalla passed large quantities of field ice and several icebergs; in 46° 20′ N., 47° 18' W., S. S. Assyrian passed large iceberg. 17th, in 47° 10' N., 46° 50′ W., S. S. Ethiopia passed iceberg and large quantities of field ice. 18th, in 46° 20' N., 45° 55' W., in 46° N., 46° 55' W., and in 46° 20' N., 47° 16' W., S. S. Bolivia passed several large icebergs; in 45° 57' N., 47° 54' W., S. S. The Queen passed large iceberg and field ice. 19th, in 46° 10' N., 46° 30' W., S. S. Cimbria passed large quantities of field ice, vessel compelled to sheer south for 12 hours; in 47° 40' N., 43° 28' W., S. S. State of Indiana passed large iceberg. 20th, in 46° 21' N., 41° 40' W., S. S. Cornwall passed several large icebergs and some field ice; in 46° 30' N., 47° 25' W., S. S. Plantyn passed iceberg about 100 feet in height, and four hours afterward a large ice island; Brig Trusty at Trepassy from Crookhaven, passed 300 miles of drift ice off the coast of Newfoundland. 21st, in 45° 19' N., 49° 58' W., S. S. Cornwall passed several large icebergs and some field ice.

TEMPERATURE OF THE AIR.

The distribution of mean atmospheric temperature over the United States and Canada for the month of February, 1882, is exhibited by lines of equal thermometric mean values upon chart No. II. The table of mean and comparative temperatures in the right-hand corner of the chart shows, in the first column, the average for the month throughout the various districts, as deduced principally from observations taken at Signal Service stations. In the two remaining columns are shown the means for the present month, and the departures of such means from the average for many years. The temperature is everywhere above the normal east of the 107th meridian, the departures of excess ranging from 2°.5 in New England to 9°.9 in the Upper Mississippi Valley. Six districts report a mean temperature, which occurred in 1845, and 23° above the mean of the coldest February, which occurred in 1838. New Hampshire: Contoncookville, mean temperature 25°.3 or nearly 3°.0 above the February average for the past 12 years. New York: North Pebruary average for the past 13 years; the highest February mean for that period, 27°.93, occurred in 1877, and the lowest mean, 13°.19, occurred in 1875; mean temperature for winter of 1881-2 at 7 a. m., 25°.16; 2 p. m., 32°.47; 9 p. m., 27°.58; mean for winter, 28°.14; average winter mean for past 13 years, 23°.21; highest winter mean, 28°.67, occurred in 1850; lowest winter mean, 27°.79, occurred in 1875. Palermo, mean temperature, 26°.4

the normal. Throughout the remainder of the country the temperature is below the normal, the departures of deficiency ranging from 1°.7 in the Southern Plateau to 7°.2 in the Middle Plateau. All of the districts but one, comprising this area, report a mean temperature which on the average is nearly 6° below the normal. As a means of interesting comparison, the following maximum departures from the normal are given for each year since 1874, together with the corresponding districts: 1875, —17°, Minnesota and —15°.2 Upper Lake Region; 1876, +4°.7 Lower Missouri Valley and +4°.6 Upper Mississippi Valley; 1877, +13°.4 Minnesota, +11°.5 Upper Mississippi Valley; 1877, +13°.4 Minnesota, +11°.5 Upper Mississippi Valley; 1879, +8°.3 Salt Lake City, +7°.1 Tucson and —6°.4 St. Lawrence Valley; 1880, +6°.5 Lower Lake Region, +6°.2 Middle Atlantic States and —5°.3 Northern Rocky Mountain Slope; 1881, —6°.0 Missouri Valley, —5°.0 Middle Rocky Mountain Slope and Upper Mississippi Valley and +6°.3 Salt Lake City.

Deviations from Mean Temperatures.—Under this heading departures exhibited by the reports from the regular Signal Service stations are shown in the table of comparative temperatures on the right-hand side of chart No. II. The following items of importance, in connection with this subject, are reported by Voluntary Observers: Illinois: Riley, mean temperature, the highest ever recorded at this place, being 10°.2 above the mean of February for the past 21 years, and 1°.6 above the highest monthly mean previously recorded, which occurred in 1878. Its maximum temperature has not been exceeded during that period, but was just equaled in February, 1861. Mean temperature of winter of 1881-2 is 27°.8 or 6°.8 above the average of the past 19 winters; only the winters of 1870-1 and 1877-8 were warmer; the mean temperature of the winter of 1862-3 was just equal. The maximum temperature of past winter has only been exceeded once, viz., in December, 1877; the minimum of each winter during the past 19 years has been lower than that of the past winter. Indiana: Vevay, mean temperature, 45°.52 or 10° above the average of the past 17 years, and 19°.5 above the mean of the coldest month (February, 1875) which was reported during that period. Maximum temperature for February, 1882, is 5° lower than that of 1866 and 1869. Iowa: Clinton, mean temperature nearly 12° above the average. Kansas: Manhattan, mean temperature 40.°4 or 8°.00 above the average of the past 22 years; highest mean during that period, 30°.18, occurred in 1878, and the next highest, 36°.93, occurred in 1876. Wellington, mean temperature 40°.1 or 6°.2 above the average of the past 3 years. Lawrence, mean temperature 41°.65 or 8°.66 above the average of the past 14 years; during that period the highest mean, 40°.22, occurred in 1878, and the lowest, 25°.78, occurred in 1881. Yates Centre, mean temperature, 39°.6 or 9°.6 above the mean of past 2 years. Maine: Gardiner, mean temperature 21°.13 or 0°.53 above the average of the past 46 years. Maryland: Fallston, mean temperature, 36°.8, which is the highest, with the exception of 1880, that has occurred during the past 12 years. Michigan: Thornville, mean temperature fully 10° above the average of the past 15 years. Missouri: St. Louis, Missouri Weather Service reports mean temperature 43°.8 or 8°.6 above the average of the past 45 years; 0°.3 below the mean of the warmest February, which occurred in 1845, and 23° above the mean of the coldest February, which occurred in 1838. New Hampshire: Contoocookville, mean temperature 25°.3 or nearly 3°.0 above the February average for the past 12 years. New York: North Volney, mean temperature 28°.39 or 6°.34 above the average of the past 13 years; the highest February mean for that period, 27°.93, occurred in 1877, and the lowest mean, 13°.19, occurred 25°.16; 2 p. m., 32°.47; 9 p. m., 27°.58; mean for winter 28°.14; average winter mean for past 13 years, 23°.21; highest

during that period the highest mean, 27°.6, occurred in 1878; lowest 12°.6 occurred in 1875. Ohio: Cleveland, mean temperature 37°.55, which has not been equaled or exceeded during the past 27 years, and is 8°.56 above the average for that period; the lowest February mean 17°.01 oc-

Table of Maximum and Minimum Temperatures for February, 1882.

State or	Signal Ser	rvice.			U. S. Army Post Surgeons or Voluntary Observers.			
Territory.	Station.	Max.	Min.	Station.	Max.	Min.		
AlabamaArizona	Montgomery	. 7±	g2 	Auburn	92	28		
Do	Little Rock Los Angeles	77		Mount Ida Fort Yuma	. 78	16		
Colorado Do	. West Las Animas Pike's Peak	. 68	. 17 17	Fort Bidwell Fort Gulud	69	-12		
Connecticut Do Dakota	New Haven Ft. Sully	. 67	. 7	. Fort Randall and		5		
Do Delaware District of Columbia.	Ft. Stevenson Breakwater Washington	61	35 24 20	Olivet	70			
Florida Do Georgia	Rey West Pensacola Augusta	78	37	Guitman and		. 26		
Do Do Idaho	Savannah Atlanta Ft. Lapwai	65	31	Thomasville	80			
Do Do	Eagle Rock Springfield Champaign and	72	_29	Geneseo	76	. 2		
Do Indiana Do	Chicago Indianapolis	65	11 15	Riley Logausport Wabash	68	12		
Indian Territory Iowa Do	Fort Supply Keokuk Des Moines	75 69	12	Cedar Rapids Cresco	72	_12		
Do	Leavenworth	69 69	7	Clay Centre and Ft. Scott Ft. Wallace	76	- 5		
Kentucky Louisiana 100	Louisville, New Orleans Shreveport	67 79	20 33	Bowling Green	68	20		
Maine Do Do	Baltumore	44	5	Cornish and Orono	52 64	_ s		
Maryland Do Massachusetts	Boston	59 60	23	Federalsburg Deer Park Westborough		10		
Do Michigan Do	Springfield	58	2	Niles Fort Brady	68	11		
Do Minnesota Do Mississippi	St. Paul St. Vincent Vicksburg	67 80	-85 32	Ft. Snelling	68 78	28		
Missouri Do Montana	Saint Louis Springfield Fort Benton	73	13	Protem	75	8		
Do Nebraska	Terry's Landing North Platte Pioche.	68 62	-37 4 6	Geneon,Golconda,	62	- 7		
Nevada Do New Hampshire Do	Winnemucca	51 35	—17 —21	Halleck Contoocookville Grafton	 63	-40 - 2 - 6		
New Jersey Do New Mexico	Sandy Hook Barnegat La Mesilla	59 72	18	South Orange Somerville Ft. Union	62	8 0		
Do	Santa Fe New York City Albany	62	11 7	Johnstown		10.5		
North Carolina Do	Wilmington Smithville Ciacinnati	77 64	2 1	Lenoir		18 8		
Do Dregon Pennsylvania	Cleveland Umatilla Pittsburg	 56 60	17 4	Ft, Klamath Dyberry		-35 - 2		
Do	Philadelphia Newport Charleston	53 78	18 10 32	Ft. Adams,	53 78	8 28		
Pennessee	Memphi- Knoxville and Nashville	76	25			_0		
PexitsDo	Rio Grande City Fort Elliott Salt Lake City	92 50	13	Kelton	62	—23		
Vermont	Burlington	51 	_ K	Charlotte Lunenburg Wytheville	54	-23 -15 12		
Do	Fort Myer	54	19 14					
West Virginia Wisconsin Wyoming	Morgantown La Cresse Cheyenne	70 65 55	21 3	Helvetin Neillsville Ft. Washakio	56	12 8 28		
wyoming	7) 7	99		r o. Witoutillit				

curred in 1875. Pennsylvania: Wellsboro month will long be remembered as most exceptionally warm; mean temperature 82°.4 has not been equaled or exceeded during the past 20 28th; Extreme Northwest, 1st to 28th; Upper Mississippi years. Texas: Clarksville, mean temperature 59°.4, the high-

est that has occurred during the past 12 years. Utah: Coalville, mean temperature about 5° below the average of February for the past four years. Vermont: Woodstock, mean temperature 21°.42; mean for February from 1868 to 1882, inclusive, 16°.82; during that period the highest mouthly mean, 23°.51 occurred in 1877 and the lowest, 9°.67, occurred in 1875. Virginia: Wytheville, mean temperature 41°.97 or 5° above the average of the past 18 years and 1° above the highest monthly mean that occurred during that period. West Virginia: Helvetia, mean temperature 40°.6 or 3°.31 above the average of the past 6 years.

Ranges of Temperature at Signal Service Stations.—Monthly ranges in general varied from 40° to 60° over the country east of the Rocky Mountains, and from 45° to 80° westward to the Pacific. The smallest ranges are: San Francisco, 23°; Key West, 24°; Port Eads, 31°; Punta Rassa and Sacramento, 32°; Atlantic City, Provincetown, Mass., Olympia and San Diego, 33°; Indianola, Cape May. New Shoreham and Portland, Or., 35°. The largest are; Terry's Landing, 96°; Fort Benton, 5°; New Chicago, 90°: Fort Sully, 89°; Smithville, Dak., 88° Fort Stevenson, 87°; Fort Assinnaboine, Rapid City and Fort Keogh, 86°; Bismarck, 84°; Fort Washakie, 82°; Fort Buford, 81°; Fort Shaw, 80°; Rock Creek, 79°; Fort Missoula, 78°; St. Vincent, 77°; Huron and Helena, 75°; Fort Custer, 74°; Eagle Rock and North Platte, 72°; Yankton, 71°. The daily ranges varied in the different districts as follows: New England, 24° at Thatcher's Island to 33° at Boston and 37° at Burlington; Middle Atlantic States, 19° at Cape May to 27° at Williamsport and 30° at Sandy Hook, New York and Albany; South Atlantic States, 21° at Smithville to 27° at Charlotte and 33° at Agusta and Kittyhawk; Florida Peninsula, 15° at Key West to 22° at Punta Rassa and Cedar Keys; Eastern Gulf States, 21° at New Orleans to 25° at Vicksburg and 29° at Montgomery; Western Gulf States, 20° at Galveston and Port E ds to 33° at Mason and 36° at Fort Gibson; Rio Grande Valley, 27° at Brownsville to 31° at Uvalde and 38° at Rio Grande; Ohio Valley and Tennessee, 24° at Champaign to 31° at Pittsburg, Morgantown and Cincinnati and 33° at Knoxville; Lower Lake Region, 21° at Detroit and Sandusky to 29° at Rochester and 32° at Cleveland and Oswego; Upper Lake Region, 22° at Alpena to 26° at Milwaukee and 33° at Duluth; Upper Mississippi Valley, 24° at Keokuk to 30° at Des Moines, 32° at St. Paul and 36° at La Crosse; Missouri Valley, 25° at Springfield, Mo., to 31° at Omaha, 35° at Leavenworth and 39° at Yankton; Extreme Northwest, 34° at Moorhead to 36° at St. Vincent, 47° at Fort Stevenson and Bismarck and 48° at Fort Buford; Northern Slope, 37° at Cheyenne to 40° at Fort Keogh, 46° at North Platte and 59° at Fort Benton; Middle Slope, 22° on summit of Pike's Peak to 42° at Dodge City and Fort Elliott and 55° at West Las Animas; Southern Slope, 34° at Coleman City to 38° at Fort Griffin and Jacksboro and 43° at Henrietta and Stockton; Northern Plateau, 26° at Umatilla to 41° at Eugle Rock and 49° at Fort Missonla; Middle Plateau, 22° at Salt Lake City to 32° at Pioche and 40° at Winnemucca; Southern Plateau, 30° at Fort Grant to 41° at La Mesilla, 42° at Fort Verde and Florence and 46° at Prescott; North Pacific Coast Region, 17° at Portland to 21° at Olympia; Middle Pacific Coast Region, 13° at San Francisco to 23° at Sacramento and 29° at Red Bluff; South Pacific Coast Region, 28° at San Diego to 31° at Visalia and Los Angeles, 32° Yuma and 41° at Campo.

Frosts.—In the various districts they were reported on the following dates: New England, 1st to 12th, 14th to 28th; Middle Atlantic States, 1st to 12th, 14th to 20th, 22d to 28th; South Atlantic States, 1st to 3d, 5th to 7th, 22d to 26th; East Gulf States, 1st, 2nd, 5th, 6th, 7th, 10th, 22d, 23d, 24th; West Gulf States, 1st, 2d, 4th, 5th, 6th, 9th, 21st, 22d, 23d; Rio Grande Valley, 1st, 4th, 5th, 21st, 22d; Ohio Valley and Tennessee, 1st to 11th, 14 to 18th, 21st to 28th; Lower Lake Region, 1st to 12th, 14th to 28th; Upper Mississippi Valley, 1st to 28th; Missonri Valley, 1st to 15th, 21st to 26th.

Table of Comparative Minimum Temperatures for the Month of February.

State	Minimum for February, 1882, Signal Service.		Lowest since Signal Service stropened—3 to 11 years	Lowest from any other source.					
or Territory.	Station	Temp.	Station.	Temp.	Year.	Piace.	Temp.	Year.	Leng of Recor
labama	Montgomery	32	Montgomery	22	1875	Huntsville	07	1832 & 36	9 yea
rizona	Prescott	5	Prescott	<u>—īī</u>	1880	Fort Canby	12	1855	12
kansas	Little Rock	28	Little Rock	22	1881	Fort Smith	4	1840	21 4
difornia	Campo	17	Campo	22 16	1877	Fort Bidwell	-18	1868	19
olorado	Pike's Peak	-17	Pike's l'eak	-37	1875	Fort Garland	-23		22
Do	West Las Animas	4	Denver	- 20	1881			.	
nnecticut	New Haven	7	New Haven	4	1881	Colebrook	-28	1861	9
kota	Fort Stevenson	-35	Pembina	48	1876	Fort Abercromlie	-40	161 & 169	
laware	Delaware Breakwater	34	Del ware Breakwater	7	1881	Fert Delaware	0	1866?	44
st, of Columbia	Washington	20	Washington	-1.5	1875	Washington	— 5		49
orlda	Pensacola	37	St. Marks	28 21	1875	Fort Barraneas	11	1852?	52
orgia	Augusta and Atlanta	31	Atlanta		1881	Augusta Arsenal	- 2	1835	48
nho	Eagle Rock	29 11	Eagle Rock		1881	Fort Hall	-11	1873?	3
nois	Champaign and Chicago	11	Chicago		1875	Winnebago		1864	11
00	Indianapolis	16	Indianonalia		1	Fort Armstrong		30 & 34	9
lianalian Territory	Indianapolis	15 12	Indianapolis		1875 1881	Spiceland		1866	
va	Fort Supply	12	Fort Supply	8 31	1875	Fort Gibson	$\begin{bmatrix} -13 \\ -37 \end{bmatrix}$	1857? 1868	46 4
nsas	Des Moines Dodge ('ity	7	Dodge City		1881	GuttenburgFort Leavenworth,		1534?	43
ntucky	Louisville	20	Louisville	70	1875	Newport Barracks			27
nisiana	Shreveport	33	Shreveport	23	75 & 81	Fort Jesup.]	'23 & '38	23
00	Surevelore	33	Sireveport	2.3	10 00 01	Baton Rouge	16	1852?	52
ine	Eastport	— 5	Eastport	-20	1876	Brunswick	-28	1859?	53
ryland	Baltimore	-02	Baltimore	4	75 & 81	Fort McHenry	l – î		43
ssachusetts	Springfield	3	Boston	- 6	1876	Lunenburgh		1855	24
00	Springhe.a		Springfield	- 6	1880	Williamstown		1835?	55
chigan	Marquette	2	Alpena	-27	1881	Ontonagon		1861	ii
00	mangaette		Marquette		1876	Fort Brady		1873	51
nnesota	St. Viacent	—3.i	Breckenridge	_34	75 & 79	Fort Ripley		1860	14
00			Duluth	-34	1875	TOTAL TELEPTON		1000	
ssissippi	Vicksburg	32	Vicksburg	21	1875	Columbus		1	10
souri	Springfield	13	St. Louis,		1875	St. Louis		1835	37
00						Jefferson Barracks	-18	1835	35
ntana,	Terry's Landing	57	Fort Custer	-29	1881	Fort Ellis		1872	6
braska	North Platte	- 4	North Platte	23	1881	Fort McPherson	· 1 —24	1874	8
00	***************************************			 		Fort Kearhey	22	1852?	19
vada	Winnemucca,	17	Pioche	— 3	1879	Fort Ruby		1864?	5
DO	***************************************	*********	Winnemucca	- 5	1880	***************************************			
w Hampshire	Mount Washington	21	Mount Washington	-42	1876	Stratford	37	1861	11
00						Dartmouth College	33	1848?	18
w Jersey	Barnegat	—1s	Atlantic City		1875	Newark	7	1861	10
ю _ <u>_</u>			Squan Beach	5	1875				•
w Mexico	Santa Fe	11	Santa Fe		79 & '80	Fort Union	-7		. 23
w York	Albany	7	Albany	18	1875	Sackett's Harbor	46	1861	8
th Carolina	Santal		37:44-shle		1001	Belleville	34	1835	15
rth Carolina lo	Smithville	24 17	Kittyhawk	111	1881 1875	Fort Johnson Hillsborough		1835	54 35
ιο υ	Cleveland	17	Toledo	—12		Marietta		1838 1852?	63
gon	Umatilla	4	Umatilla	 ()	1881	Camp Harney		1868	6
nsylvania	Philadelphia	18	Erie		1875	Lewisburg		'65 & '67	
0	r mrauerpma		Effe		1010	Philadelphia		1866	113
ode Island	Newport	10	Newport		1881	Providence		1866	35
uh Carolinal	Charleston		Charleston		1881	Fort Moultrie		1835	38
nessee	Nashville		Knoxville	8	1875	Glenwood Cottage	. — š	1864?	ii
as	Fort Elliott	13	Fort Elliott	l — i	1881	Fort McKayet	. ŝ	1873?	22
h	Salt Lake City	- 4	Salt Lake City	1 3	1880	Fort Crittenden	6		. 3
mont	Burlington	6	Burlington	18	1881	Randolph	31	1868	5
ginia	Fort Myer	19	Fort Whipple	1	1881	Al-xandria	.1 3	1855	11
ginia ishington T'y	Spokane Falls	-14	Spokane Falls	l — 7	1881	Fort Colville		1862?	14
st Virginia	Spokane Falls Morgantown	21	Morgantown	-10	1875				
sconsin	La Crosse	3	La Crosse	-34	1875	Fort Howard		1823	30
ю	Fort Washakie					Superior City	. -3 8	1863	3
oming		26	Cheyenne	-12	1881	Fort FettermanFort Laramie	-40 -35	1873	25
o	***************************************							1864?	

Northern Slope, 1st to 28th; Middle Slope, 1st to 9th, 12th, following notable instances of extremely low temperatures were 5th, 7th, 8th, 12th, 15th, 17th to 25th, 28th; Northern temperature —26°; Iowest for many years. Plateau, 1st to 7th, 9th to 13th, 15th to 23d; North Pacific Or., January 29th, minimum temperature —4°. Coast Region, 1st, 2d, 3rd, 6th, 7th, 10th, 11th, 13th, 16th to 24th; Middle Pacific Coast Region, 2d, 3d, 4th, 7th, 8th, 10th, 11th, 13th, 14th, 15th, 17th to 23d; Southern Pacific Coast

subject is considered elsewhere in the REVIEW under the head a monthly average for each of the various districts, deter-Princeton, Cal., 19th, \(\frac{3}{2}\) inch thick; Fayette, Miss., 1st; the present month with such averages. Upon comparison Stateburg, S. C., 25th; Ashwood, Tenn., 22d to 25th; with the chart the tabulated averages show three areas of de-Charleston, S. C., 25th, one inch thick in some parts of the city; New River Inlet, N. C., 1st; Denisou, Tex., 21st and ter extends southwestward from the Canadian Maritime Provided and the Canadi Ft. Elliott, Tex., 20th.

14th to 17th, 19th, 21st to 27th; Southern Slope, 9th, 20th to received too late to be published in the January REVIEW: 23d; Southern Plateau, 1st to 28th; Middle Plateau, 1st to Parker's Station, Burnt River, Or., January 29th, minimum Canvon, City.

PRECIPITATION.

The general distribution of rain-fall over the United States Region, 2d to 5th, 7th, 8th, 9th, 12th to 15th, 18th to 25th, and Canada for the month of February, 1882, is exhibited upon chart No. III from the reports of over 500 stations. Icc.—Regarding its formation in the northern sections, this From the table in the left hand corner of the chart is obtained of Ice in Rivers and Harbors. The following are exceptional mined from the records of Signal Service stations, covering a cases of its formation in the southern sections of the country: period of several years, to which is subjoined a comparison of 22d, on shallow pools; Little Rock, 21st; Memphis, 21st, inces to central Texas, and thence directly west to the Pacific 22d; Ft. Supply, Ind. Ty., 19th; 21st, \(\frac{3}{4} \) inch thick on river; coast, the departures ranging from 0.25 inch in the South Pacific Coast Region to 3.16 inches in Tennessee, and 3.74 Low Temperatures,—Winnemucca, Nev., 18th, minimum tem-inches in the Ohio Valley. Within the central portion of this perature -17°, the lowest ever experienced at this place. The large area rains were continuous and excessive during the